

Dump Style Asphalt Hot Box Trailer Bidding Specifications

It is the intent of this specification to provide for the purchase of one (1) new Dump Style Asphalt Hot Box Trailer to be used for the purpose of maintaining heat in patching material in order to repair paved surfaces.

The Elbert County Board of Commissioners (BOC) will compare the proposals and comparisons will not be confined to price only. The successful bidder will be the one whose product is judged as best serving the interests of the BOC when price, product, quality, and delivery are considered. The BOC reserves the right to reject any or all bids. A contract will be awarded to the bidder submitting the lowest responsible bid meeting the requirements.

It shall be the bidder's responsibility to carefully examine each item of the specification. Failure to offer a completed bid or failure to respond to each section of the technical specification (Comply: YES NO) will cause the proposal to be rejected without review as non-responsive. All variances, exceptions, and/or deviations shall be fully described in the appropriate section. Deceit in responding to the specification will be cause for rejection.

| Length x Width x Height 208"x90"x90" | <u>YES</u> | <u>NO</u> |
|---|-------------------|------------------|
| Material Capacity 3 Cubic Yards (4 Tons) | | |
| Fuel Tank Capacity 30 Gallons | | |
| Hydraulic Tank Capacity 2.2 Gallons | | |
| Dumping Angle 52° | | |
| Hoist Type & Capacity 14,000 lb. Truck Style Scissor Hoist | | |
| Hopper construction 10ga Tank 12ga Oil Jacket 12ga Insulation | | |
| Hopper floor shall be flat when the hoist is down to achieve the lowest overall hopper height for driver visibility of operations at the rear of the unit | | |
| Hopper is to be of oil jacketed design | | |
| Oil jacket to be surrounded by 2" of 1-1/2lb density high temperature fiberglass insulation covered with a 12ga insulation jacket | | |

| | <u>YES</u> | <u>NO</u> |
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| The top loading doors shall be of 16ga material and utilize gas assist shocks with lockdowns | | |
| They shall be of tapered design with water lip to allow water shedding | | |
| Shall have minimal clearance between top doors and hopper to decrease heat loss | | |
| Each door shall be of tapered design, 5-5/16" down to 2-3/16" | | |
| Shall have a single guillotine style discharge door which also includes gas assist shocks to provide easy open/close operations and infinite positions | | |
| It shall not require latches or hooks to hold open | | |
| Total door size shall be 10" high by 24" wide | | |
| HTO Capacity 110 Gallons | | |
| Controls LED Automatic Temperature Controls | | |
| Burner Type and Output Diesel 120,000 BTU | | |
| Hydraulic Pump Electric Over Hydraulic | | |
| Trailer: Trailer to be A-frame style with 7000lb tandem axles rated to carry a loaded tank at highway speed (ST235/85/R16 Tires) | | |
| Frame constructed of 2" x 6" x 3/16" high strength, rectangular steel tubing reinforced at all stress points with 1/4" x 6" x 15" fish plates | | |
| Suspension shall be of leaf spring type | | |
| Shall have a one-piece bolt-on shackle | | |
| Shall have electric brakes with breakaway kit to allow for breakaway protection by applying brakes in case of accidental breakaway from towing vehicle | | |
| Hitch shall be of 3" pintle ring and have adjustable height from 21" to 34" | | |
| Fenders shall be heavy duty, minimum 12ga steel, and be of bolt-on design and able to support 500lbs without damage | | |
| The trailer electrical system shall be 12-volt DC battery with charging system and a 7RV light plug | | |
| Turn signals and brake lights shall be sealed beam grommeted | | |
| Side markers shall be mounted at the rear and sides of unit | | |
| A minimum 5000lb capacity tongue jack, with swing away feature for road clearance, shall be installed | | |
| Safety chains shall be grade 40 with attached eye bolts. Eye bolts will be attached to the frame with sleeved bushings | | |
| All wiring and fuel lines shall be run through the inside frame for protection from outside elements | | |

| | <u>YES</u> | <u>NO</u> |
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| Burner Controls: Automatic spark ignition shall light the burner with the flip of a switch and include flame-out protection to shut off the fuel supply if the flame is blown out | | |
| The electronic thermostat shall have an easy-to-adjust thermostat with a setting range from 0°-550° F | | |
| A large digital LED display shall make it easy to monitor the product temperature in the tank | | |
| Once the operator sets the desired temperature, burner operation and temperature control shall be fully automated with this system | | |
| The burner controls and thermostats are to be located in a weather proof enclosure with a transparent cover so the temperatures can be monitored without the need to open the cover | | |
| The operator shall be able to read the product temperatures when standing 6 feet from the machine | | |
| DIESEL BURNER: The machine shall be equipped with one (1) Beckett forced air diesel fuel burner with an operating output of up to 120,000 BTU | | |
| The burner fires down a single flue constructed of 5" diameter x .188" wall thickness fire tube, and a 5" x .135" wall thickness on return tube to a vertical exhaust stack | | |
| The burner is completely self-contained with automatic ignition and safety shut off circuitry to stop the fuel flow if the flame goes out | | |
| The burner is designed to operate on 12-volt DC power without the need for additional adaptors or apparatus | | |
| The heating system shall operate on #1 or #2 diesel fuel which shall be supplied from a 30-gallon fuel tank | | |
| Oil Jacket Heating System: Hopper shall be of oil jacketed design with a 5" internal "U" shaped flue, submerged in the bottom of the oil jacket | | |
| Oil jacket shall heat the bottom and halfway up the sides | | |
| The oil jacket shall be constructed of ten (10) gauge steel and have an internal fill with a cold seal expansion tank | | |
| The oil jacket shall have a 1" bottom drain and a 1" cold fill plug | | |
| Lights: Combination stop, turn, and clearance lights with license plate bracket wired in protective loom with 7 pin RV connector. Shall be a two (2) light LED system | | |
| Paint: Surfaces of the unit will be properly prepared and primed per standard industry practices. Shall have two (2) part polyurethane paint | | |

| | <u>YES</u> | <u>NO</u> |
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| Heated Tack Tank: To have a capacity of 40 gallons with a 6" fill cap | | |
| To be of a diesel bottom fired configuration | | |
| Shall have a 2" molasses gate valve for draining the tank | | |
| To be Insulated with 2" of 1-1/2lb density, high temperature fiberglass Insulation with 16 gauge outside cover | | |
| Tack Tank with Pumping System and An Aluminum Spray Wand Attachment: Hydraulic drive 20 GPM pump with hand wand and 20' hose w/ reel | | |
| Shall have an 18AMP charging circuit | | |
| A 12-volt battery shall be included and located in a lockable battery box | | |
| The engine shall power a hydraulic pump; the hydraulic pump shall power a hydraulic motor, which shall operate a Viking HL-32 material pump | | |
| The pump shall be capable of forward and reverse positions and have variable flow control | | |
| To include 15' of yellow ortec hose and 5' steel spray wand with an on/off valve | | |
| A 3-way flushing valve shall be installed for solvent flushing of pump and plumbing | | |
| Diesel Engine W/ Hydraulic System: Water cooled diesel engine The engine shall be a 16HP, 2-cylinder, liquid cooled diesel engine with electric start | | |
| Strobe Light: 12 volt powered. Shall be controlled from operators control panel. Strobe shall be mounted on rear of unit | | |
| Tool Box: Shall be constructed of 12 gauge steel with cover and locking hasp 10"x10"x24" | | |
| Stainless Steel Tool Holders: Spring loaded clamps for holding rakes, lutes, brooms, and shovels. Mounted onto fender | | |
| Spare Tire: Spare tire with holder mounted onto frame of unit. | | |
| Compactor Plate Carrier: To have electric raise and lower for operator convenience. Shall have a spring lock and fold up out of the way when not in use | | |
| Water Tank: 15 gallon plastic water tank to be used with the compactor plate carrier option | | |

